

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended) A power supply device comprising:

a rectification circuit for rectifying the output of an AC power generator and a DC voltage reduction means for stepping down the DC output from the rectification circuit, ~~wherein~~ said voltage reduction means is a non-insulation type DC/DC converter, ~~and~~ ;

~~there is provided~~ a self-excited oscillation type converter having a primary side connected to the output side of said non-insulation type DC/DC converter and a secondary side used as the power supply output;

a switching means for performing duty control on said non-insulation type DC/DC converter; and

a switching-means driving circuit which maintains said switching means at an ON state until the AC output voltage from said AC power generator exceeds a predetermined value generated by an oscillation circuit when compared in a comparator circuit and starts the duty control with said switching means at the time when said AC output voltage exceeds the predetermined value, wherein the switching-means driving circuit includes said oscillation circuit and said comparator circuit.

2. (Cancelled).

3. (Currently Amended) The power supply device according to Claim ~~[[2]]~~ 1,

wherein said self-excited oscillation type converter is structured to start operation, before said AC output voltage reaches said predetermined value that causes the start of the duty control for said DC/DC converter.

4. (New) The power supply device according to Claim 1, wherein:

the comparator for comparing the AC output voltage with the predetermined value outputs a comparison result to a drive circuit, said drive circuit outputting a drive signal for controlling the switching means for performing duty control on the non-insulation type DC/DC converter.